

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L15	7628	(plate or panel) same ((light adj (emitting or emitter)) or ld or (laser near diode)) same ((light adj (receiving or receiver)) or pd or photodiode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:03
L16	89	(plate or panel) same ((light adj (emitting or emitter)) or ld or (laser near diode)) same ((light adj (receiving or receiver)) or pd or photodiode) same (peltier or (thermoelectric near transducer) or cooler or cooling or (thermoelectric near conversion))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:05
L17	23	((upper or lower or top or bottom or first or second) near (plate or panel)) same ((light adj (emitting or emitter)) or ld or (laser near diode)) same ((light adj (receiving or receiver)) or pd or photodiode) same (peltier or (thermoelectric near transducer) or cooler or cooling or (thermoelectric near conversion))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:08
L18	28	((upper or lower or top or bottom or first or second) near (plate or panel)) same ((light adj (emitting or emitter)) or ld or (laser near diode)) same ((light adj (receiving or receiver)) or pd or photodiode) same (peltier or (thermoelectric near transducer) or cooler or cooling or (thermoelectric near conversion) or (temperature near (control or controller or controlling)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:14
L19	11	((upper or lower or top or bottom or first or second) near (plate or panel)) with ((light adj (emitting or emitter)) or ld or (laser near diode)) with ((light adj (receiving or receiver)) or pd or photodiode) with (peltier or (thermoelectric near transducer) or cooler or cooling or (thermoelectric near conversion) or (temperature near (control or controller or controlling)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:14

## EAST Search History

L20	12	((upper or lower or top or bottom or first or second) near (plate or panel)) same ((light adj (emitting or emitter)) or ld or (laser near diode)) same ((light adj (receiving or receiver)) or pd or photodiode) same (peltier or (thermoelectric near transducer) or cooler or cooling or (thermoelectric near conversion) or (temperature near (control or controller or controlling))) and ((hole or opening) near5 plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:15
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## EAST Search History

L33	245	(US-20050175299-\$ or US-20050232638-\$ or US-20040135550-\$ or US-20060112982-\$ or US-20060207642-\$ or US-20060211579-\$ or US-20050100064-\$ or US-20060204997-\$ or US-20060210433-\$ or US-20060211130-\$ or US-20020167977-\$ or US-20030063636-\$ or US-20030081289-\$ or US-20030112500-\$ or US-20030151738-\$ or US-20040240497-\$ or US-20050008049-\$ or US-20050213882-\$ or US-20050214957-\$ or US-20050220166-\$ or US-20050220167-\$ or US-20050239365-\$ or US-20040245446-\$ or US-20030146096-\$ or US-20050207092-\$ or US-20060083517-\$).did. or (US-20060198600-\$ or US-20040141755-\$ or US-20040008986-\$ or US-20030227950-\$ or US-20030058507-\$ or US-20020167707-\$ or US-20020014577-\$ or US-20020043364-\$ or US-20030026557-\$ or US-20030039388-\$ or US-20030063637-\$ or US-20030098412-\$ or US-20030127661-\$ or US-20040081410-\$ or US-20040129441-\$ or US-20040151505-\$ or US-20040168819-\$ or US-20050125177-\$ or US-20050135777-\$ or US-20050180754-\$ or US-20020093738-\$ or US-20010028456-\$ or US-20030000225-\$ or US-20060056780-\$ or US-20030183839-\$ or US-20060128221-\$ or US-20060093287-\$).did. or (US-20020153486-\$ or US-20060118726-\$ or 12/11/06 11:13:43 AM US-20030038290-\$ or C:\Documents and Settings\frderemy\My Documents\EAST\workspaces\10766953_case.wsp US-20020060840-\$ or US-20020077721-\$ or	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/11 08:17
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## EAST Search History

L34	32	I33 and ((first or second or upper or lower or top or bottom) near2 plate) near10 (peltier or (thermoelectric near transducer) or cooling or cooler or (temperature near (control or controlling or controller)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:18
L35	38	I33 and ((first or second or upper or lower or top or bottom) near2 plate) near10 ((thermoelectric near conversion) or peltier or (thermoelectric near transducer) or cooling or cooler or (temperature near (control or controlling or controller)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:23
L36	40	I33 and ((first or second or upper or lower or top or bottom) near2 plate) with ((thermoelectric near conversion) or peltier or (thermoelectric near transducer) or cooling or cooler or (temperature near (control or controlling or controller)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:24
L37	172	I33 and ((thermoelectric near conversion) or peltier or (thermoelectric near transducer) or cooling or cooler or (temperature near (control or controlling or controller)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:27
L38	108	I33 and ((thermoelectric near conversion) or peltier or (thermoelectric near transducer) or cooling or cooler or (temperature near (control or controlling or controller))) and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:27
L39	92	I33 and ((thermoelectric near conversion) or peltier or (thermoelectric near transducer) or cooling or cooler or (temperature near (control or controlling or controller))) and lens and ((light adj (receiver or receiving)) or pd or photodiode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:28

## EAST Search History

L40	82	I33 and ((thermoelectric near conversion) or peltier or (thermoelectric near transducer) or cooling or cooler or (temperature near (control or controlling or controller))) and lens and ((light adj (receiver or receiving)) or pd or photodiode) and ((light adj (emitter or emitting) or ld or (laser near diode)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:28
L41	1	("5130531").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/11 08:33
L42	1	("6639248").URPN.	USPAT	OR	ON	2006/12/11 08:34
L43	39	("4012833"   "4338577"   "4411057"   "4546478"   "4550333"   "4603419"   "4731795"   "4768199"   "4860304"   "4897711"   "4902654"   "4904036"   "4953166"   "4962504"   "5029335"   "5113404"   "5115445"   "5124281"   "5156999"   "5181214"   "5233580"   "5256164"   "5264392"   "5265113"   "5265116"   "5295146"   "5319653"   "5357536"   "5365539"   "5394413"   "5402437"   "5404368"   "5490158"   "5495494"   "5502737"   "5574740"   "5703890"   "5828683"   "6072815").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/11 08:34
L44	8	("6240113").URPN.	USPAT	OR	ON	2006/12/11 08:36
L45	16	("4338577"   "4803689"   "5011247"   "5262675"   "5680384"   "5740191"   "6072814"   "6094918"   "6146025"   "6205790"   "6263126"   "6301280"   "6489677"   "6529535"   "6542534"   "6709169").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/11 08:37
L46	1	("6868104").URPN.	USPAT	OR	ON	2006/12/11 08:38
L47	138	((upper or top) near (plate or panel)) near10 ((laser near diode) or ld or (light adj (emitting or emitter)))	USPAT	OR	ON	2006/12/11 08:39

## EAST Search History

L48	8	((upper or top) near (plate or panel)) near10 ((laser near diode) or ld or (light adj (emitting or emitter))) and ((lower or bottom) near (plate or panel)) near10 ((photodiode) or pd or (light adj (receiving or receiver)))	USPAT	OR	ON	2006/12/11 08:40
L49	0	((upper or top) near (plate or panel)) near10 ((laser near diode) or ld or (light adj (emitting or emitter))) and ((lower or bottom) near (plate or panel)) near10 ((photodiode) or pd or (light adj (receiving or receiver))) and peltier	USPAT	OR	ON	2006/12/11 08:41
L50	0	((upper or top or first or second) near (plate or panel)) near10 ((laser near diode) or ld or (light adj (emitting or emitter))) and ((lower or bottom) near (plate or panel)) near10 ((photodiode) or pd or (light adj (receiving or receiver))) and peltier	USPAT	OR	ON	2006/12/11 08:41
L51	0	((upper or top or first or second) near (plate or panel)) near10 ((laser near diode) or ld or (light adj (emitting or emitter))) and ((lower or bottom or first or second) near (plate or panel)) near10 ((photodiode) or pd or (light adj (receiving or receiver))) and peltier	USPAT	OR	ON	2006/12/11 08:41
L52	2	((upper or top or first or second) near (plate or panel)) with ((laser near diode) or ld or (light adj (emitting or emitter))) and ((lower or bottom or first or second) near (plate or panel)) near10 ((photodiode) or pd or (light adj (receiving or receiver))) and peltier	USPAT	OR	ON	2006/12/11 08:41
L53	2	((upper or top or first or second) near (plate or panel)) with ((laser near diode) or ld or (light adj (emitting or emitter))) and ((lower or bottom or first or second) near (plate or panel)) with ((photodiode) or pd or (light adj (receiving or receiver))) and peltier	USPAT	OR	ON	2006/12/11 08:42

## EAST Search History

L54		3	((upper or top or first or second) near (plate or panel)) with ((laser near diode) or ld or (light adj (emitting or emitter))) and ((lower or bottom or first or second) near (plate or panel)) with ((photodiode) or pd or (light adj (receiving or receiver))) and (peltier or cooler or cooling or (thermoelectric near conversion) or (thermoelectric near transducer) or (temperature near (controlling or controller)))	USPAT	OR	ON	2006/12/11 08:43
L55		1	((upper or top or first or second) near (plate or panel)) with ((laser near diode) or ld or (light adj (emitting or emitter))) same ((lower or bottom or first or second) near (plate or panel)) with ((photodiode) or pd or (light adj (receiving or receiver))) and (peltier or cooler or cooling or (thermoelectric near conversion) or (thermoelectric near transducer) or (temperature near (controlling or controller)))	USPAT	OR	ON	2006/12/11 08:43
L56		0	((upper or top or first or second) near (plate or panel)) same ((laser near diode) or ld or (light adj (emitting or emitter))) same ((lower or bottom or first or second) near (plate or panel)) same ((photodiode) or pd or (light adj (receiving or receiver))) same (peltier or cooler or cooling or (thermoelectric near conversion) or (thermoelectric near transducer) or (temperature near (controlling or controller)))	USPAT	OR	ON	2006/12/11 08:44
L57	1541056		(peltier or (thermoelectric near conversion) or (thermoelectric near transducer) or cooler or cooling or (temperature near (control or controlling or controller)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:45
L58	131279		(peltier or (thermoelectric near conversion) or (thermoelectric near transducer) or cooler or cooling or (temperature near (control or controlling or controller))) with (plate or panel or heatsink or sink)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:46

## EAST Search History

L59	330	((peltier or (thermoelectric near conversion) or (thermoelectric near transducer) or cooler or cooling or (temperature near (control or controlling or controller))) with (plate or panel or heatsink or sink)) same (pd or photodiode or (light adj (receiving or receiver)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:46
L60	90	((peltier or (thermoelectric near conversion) or (thermoelectric near transducer) or cooler or cooling or (temperature near (control or controlling or controller))) with (plate or panel or heatsink or sink)) same (pd or photodiode or (light adj (receiving or receiver))) same (ld or (laser near diode) or (light adj (emitting or emitter)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:50
L61	1370	((peltier or (thermoelectric near conversion) or (thermoelectric near transducer) or cooler or cooling or (temperature near (control or controlling or controller))) near10 (plate or panel or heatsink or sink)) and (pd or photodiode or (light adj (receiving or receiver))) and (ld or (laser near diode) or (light adj (emitting or emitter)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:51
L62	471	((peltier or (thermoelectric near conversion) or (thermoelectric near transducer) or cooler or cooling or (temperature near (control or controlling or controller))) near10 (plate or panel or heatsink or sink)) and (pd or photodiode or (light adj (receiving or receiver))) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel or heatsink or (heat near sink)) near10 (hole or opening or aperture))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:51

## EAST Search History

L63	139	((peltier or (thermoelectric near conversion) or (thermoelectric near transducer) or cooler or cooling or (temperature near (control or controlling or controller))) near10 (plate or panel or heatsink or sink)) and (pd or photodiode or (light adj (receiving or receiver))) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel or heatsink or (heat near sink)) near10 (hole or opening or aperture)) and ((ld or (laser near diode) or (light adj (emitting or emitter))) near10 (plate or panel or heatsink or sink))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:52
L64	63	((peltier or (thermoelectric near conversion) or (thermoelectric near transducer) or cooler or cooling or (temperature near (control or controlling or controller))) near10 (plate or panel or heatsink or sink)) and (pd or photodiode or (light adj (receiving or receiver))) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel or heatsink or (heat near sink)) near10 (hole or opening or aperture)) and ((ld or (laser near diode) or (light adj (emitting or emitter))) near10 (plate or panel or heatsink or sink)) and ((pd or (photodiode) or (light adj (receiving or receiver))) near10 (plate or panel or heatsink or sink))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:58
L65	90852	(plate or panel or baseplate) near10 (peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 08:59

## EAST Search History

L66	71	(plate or panel or baseplate) near10 (peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near10 (pd or (photodiode) or (photo near diode) or (light adj (receiving or receiver)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:02
L67	72	(plate or panel or baseplate) near10 (peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near10 (pd or (photodiode) or (photo near diode) or (light adj (sensor or sensing or receiving or receiver)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:02
L68	72	(plate or panel or baseplate) with (peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near10 (pd or (photodiode) or (photo near diode) or (light adj (sensor or sensing or receiving or receiver)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:02
L69	137	(plate or panel or baseplate) with (peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) with (pd or (photodiode) or (photo near diode) or (light adj (sensor or sensing or receiving or receiver)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:03
L70	63	(plate or panel or baseplate) with (peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) with (pd or (photodiode) or (photo near diode) or (light adj (sensor or sensing or receiving or receiver))) and (ld or (laser near diode) or (light adj (emitting or emitter)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:04

## EAST Search History

L71	29	(plate or panel or baseplate) with (peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) with (pd or (photodiode) or (photo near diode) or (light adj (sensor or sensing or receiving or receiver))) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel) near10 (hole or opening or aperture))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:07
L72	39	(plate or panel or baseplate) with (peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) same (pd or (photodiode) or (photo near diode) or (light adj (sensor or sensing or receiving or receiver))) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel) near10 (hole or opening or aperture))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:11
L73	18	(oomori and hirotaka)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:08
L74	7043	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near5 between near5 plate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:11
L75	7769	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near5 between near5 (baseplate or panel or plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:11

## EAST Search History

L76	578	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near5 between near5 (baseplate or panel or plate) and laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:12
L77	311	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near5 between near5 (baseplate or panel or plate) and (ld or (laser near diode) or (light adj (emitting or emitter)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:12
L78	95	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near2 between near2 (baseplate or panel or plate) and (ld or (laser near diode) or (light adj (emitting or emitter)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:13
L79	64	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near2 between near2 (baseplate or panel or plate) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel or baseplate) near10 (hole or opening or aperture))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:14
L80	28	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near2 between near2 (baseplate or panel or plate) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel or baseplate) near10 (hole or opening or aperture) with light)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:14

## EAST Search History

L81	21	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near2 between near2 (baseplate or panel or plate) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel or baseplate) near10 (hole or opening or aperture) near10 light)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:15
L82	95	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near2 between near2 (baseplate or panel or plate) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel or baseplate) "5" (hole or opening or aperture) near10 light)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:15
L83	17	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near2 between near2 (baseplate or panel or plate) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel or baseplate) near5 (hole or opening or aperture) near10 light)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:16
L84	2	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near2 between near2 (baseplate or panel or plate) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel or baseplate) near5 (hole or opening or aperture) near10 light) and (photodiode or pd or (light adj (receiving or receiver or sensor or sensing)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:17

## EAST Search History

L85	149	(peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near conversion) or (thermoelectric near transducer)) near10 (baseplate or panel or plate) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((plate or panel or baseplate) near5 (hole or opening or aperture) near10 light) and (photodiode or pd or (light adj (receiving or receiver or sensor or sensing)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:17
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## EAST Search History

L99	57	I98 and (plate near10 (hole or opening))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:20
L100	55	I98 and (plate near5 (hole or opening))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:21
L101	11	I98 and (((first or second or upper or lower or base) near plate) near5 (hole or opening))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:24
L102	1541056	(peltier or (thermoelectric near transducer) or (thermoelectric near conversion) or (temperature near (control or controlling or controller)) or cooler or cooling)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:25
L103	42825	(peltier or (thermoelectric near transducer) or (thermoelectric near conversion) or (temperature near (control or controlling or controller)) or cooler or cooling) and (ld or (laser near diode) or (light adj (emitting or emitter)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:26
L104	8688	(peltier or (thermoelectric near transducer) or (thermoelectric near conversion) or (temperature near (control or controlling or controller)) or cooler or cooling) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((photo near diode) or (photodiode) or (light adj (receiving or receiver)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:26
L105	4763	(peltier or (thermoelectric near transducer) or (thermoelectric near conversion) or (temperature near (control or controlling or controller)) or cooler or cooling) and (ld or (laser near diode) or (light adj (emitting or emitter))) and ((photo near diode) or (photodiode) or (light adj (receiving or receiver))) and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:27

## EAST Search History

L106	372	(peltier or (thermoelectric near transducer) or (thermoelectric near conversion) or (temperature near (control or controlling or controller)) or cooler or cooling) same (Id or (laser near diode) or (light adj (emitting or emitter))) same ((photo near diode) or (photodiode) or (light adj (receiving or receiver))) and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:27
L107	1539	((light adj (emitting or emitter)) or (laser near diode) or Id) near10 ((upper or lower or top or bottom or first or second) near2 plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 09:51
L108	185	((light adj (emitting or emitter)) or (laser near diode) or Id) near10 ((upper or lower or top or bottom or first or second) near2 plate) and ((light adj (receiver or receiving)) or (photo near diode) or pd or photodiode) near10 ((upper or lower or top or bottom or first or second) near2 plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 10:06
L109	4	"6506624"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 10:05

## EAST Search History

L124	572	((light adj (emitting or emitter)) or (laser near diode) or ld) near10 ((upper or lower or top or bottom or first or second) near2 (panel or board or substrate or plate)) and ((light adj (receiver or receiving)) or (photo near diode) or pd or photodiode) near10 ((upper or lower or top or bottom or first or second) near2 (substrate or board or panel or plate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 10:07
L125	129	((light adj (emitting or emitter)) or (laser near diode) or ld) near10 ((upper or lower or top or bottom or first or second) near2 (panel or board or substrate or plate)) and ((light adj (receiver or receiving)) or (photo near diode) or pd or photodiode) near10 ((upper or lower or top or bottom or first or second) near2 (substrate or board or panel or plate)) and ((thermoelectric near conversion) or (thermoelectric near element) or (thermoelectric near transducer) or cooling or cooler or peltier or (temperature near (control or controlling or controller)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 10:11
L126	64	((light adj (emitting or emitter)) or (laser near diode) or ld) near10 ((upper or lower or top or bottom or first or second) near2 (panel or board or substrate or plate)) and ((light adj (receiver or receiving)) or (photo near diode) or pd or photodiode) near10 ((upper or lower or top or bottom or first or second) near2 (substrate or board or panel or plate)) and ((thermoelectric near conversion) or (thermoelectric near element) or (thermoelectric near transducer) or cooling or cooler or peltier or (temperature near (control or controlling or controller)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 10:34
L127	11	("20030128552"   "20030151135"   "20050054172"   "20050156187"   "5345373"   "5602672"   "5814871"   "6653163"   "6823145"   "6876682"   "6935792").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/11 10:30

## EAST Search History

L128	606	migita	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 10:30
L129	1	(masaki near migita)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 10:31
L130	1	(masaki near2 migita)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 10:31
L131	5800	((light adj (emitting or emitter)) or (laser near diode) or Id) with (peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near (element or device or conversion or transducer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 10:35
L132	369	((light adj (emitting or emitter)) or (laser near diode) or Id) with (peltier or cooling or cooler or (temperature near (control or controlling or controller)) or (thermoelectric near (element or device or conversion or transducer))) with (pd or photodiode or (photo near diode) or (light near (receive or receiving or receiver)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 10:36
L133	995	257/82	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 11:09

## EAST Search History

L148	70	I147 and "257"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 11:13
L149	1269	257/81	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/11 11:13